4890683 (5)

AID 1020-25 (10-70)

REPORT U-446

PAGE 1

PROJECT APPRAISAL REPORT (PAR)

10-AAO-458-E1

1. PROJECT NO.	2. PAR FOR PERIOD	3. COUNTRY	4. PAR SERIAL NO.
~~489-11-230-683~~	~~July 1975~~ to Sept. ~~June~~ 1976	~~Korea~~	~~1977 - 4~~ Sp.

SCIENCE AND TECHNOLOGY

6. PROJECT DURATION: Began FY ~~1973~~ Ends FY ~~1977~~	7. DATE LATEST PROP	8. DATE LATEST PIP	9. DATE PRIOR PAR
	11/17/72		8/11/75

10. U.S. FUNDING	a. Cumulative Obligation Thru Prior FY: $	b. Current FY Estimated Budget: $	c. Estimated Budget to completion After Current FY: $
	445,000 */	-0-	-0-

11. KEY ACTION AGENTS (Contractor, Participating Agency or Voluntary Agency)

a. NAME	b. CONTRACT, PASA OR VOL. AG. NO.
~~Ministry of Science and Technology (MOST)~~	
~~ROKG (Block Grant)~~	

I. NEW ACTIONS PROPOSED AND REQUESTED AS A RESULT OF THIS EVALUATION

A. ACTION (X) USAID	A. ACTION (X) AID 'W	A. ACTION (X) HOST	B. LIST OF ACTIONS	C. PROPOSED ACTION COMPLETION DATE
X		X	Finalize discussions and decisions regarding a one-year extension of this project.	January 1977

*/ Includes $68,000 US Direct Hire Costs changeable to this project

D. REPLANNING REQUIRES REVISED OR NEW: ☐ PROP ☐ PIP ☐ PRO AG ☐ PIO/T ☐ PIO/C ☐ PIO/P

E. DATE OF MISSION REVIEW

PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE	MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE
John M. Miller 12/8/76	Dennis P. Barrett 12/9/76

AID 1020-25 (10-70) PAGE 2 PAR	PROJECT NO. 489-11-230-683	PAR FOR PERIOD: TO 7/1/75 - 9/30/76	COUNTRY Korea	PAR SERIAL NO. 1977 - 4

II. PERFORMANCE OF KEY INPUTS AND ACTION AGENTS

A. INPUT OR ACTION AGENT — CONTRACTOR, PARTICIPATING AGENCY OR VOLUNTARY AGENCY	B. PERFORMANCE AGAINST PLAN — UNSATISFACTORY		SATISFACTORY		OUTSTANDING			C. IMPORTANCE FOR ACHIEVING PROJECT PURPOSE (X) — LOW		MEDIUM		HIGH
	1	2	3	4	5	6	7	1	2	3	4	5
1. Ministry of Science and Technology					X							X
2.												
3.												

Comment on key factors determining rating

A total of $377,000 was made available for the program activities of this Project. Through amendment No. 3 dated 5/18/76, the TDDA and TDD were extended for an additional one year to 6/30/77 and 8/30/77, respectively, with dual purposes: (1) to permit the action agent (MOST) to use a greater proportion of Korean currency for the project; and (2) thereby to enable MOST to spend dollar funds provided hereunder for more qualitative and quantitative program achievements. The sole responsibility for programming of funds and for the implementation of the project is vested in MOST. As in past years, MOST has demonstrated a high level of competence in carrying out the program activities such as the recruitment of U. S. experts and the arrangement of training programs for Korean participants. A request for an additional 1 year extension of this grant is currently under discussion with MOST.

4. PARTICIPANT TRAINING	1	2	3	4	5	6	7	1	2	3	4	5
						X						X

Comment on key factors determining rating

During FY 1976, MOST has sent 10 Korean participants selected from indigenous scientific and technology institutions and government agencies for training in the US for durations ranging from 1 month to 12 months, in field such as nuclear energy, laser manufacturing technology, pollution control technology, pulp industry, and material sciences. The participants have served to promote a basis for further technical coorperation between U.S. and Korean institutions.

5. COMMODITIES	1	2	3	4	5	6	7	1	2	3	4	5

Comment on key factors determining rating

N. A.

6. COOPERATING COUNTRY		1	2	3	4	5	6	7	1	2	3	4	5
	a. PERSONNEL					X							X
	b. OTHER						X						X

Comment on key factors determining rating

The Bureau of Technical Cooperation, MOST, has continued to maintain close relationships with indigenous science and technology institutions such as KIST, KAERI, KORSTIC, and other private and government agencies in designing programs leading to recruitment of U. S. consultants as well as training programs. Though quantitative achievements in FY 76 were somewhat lower than the actual achievements in FY 75 and than the plan for FY 76, principally as a result of the extension of the Grant Agreement for an additional year to enable MOST to plan the scarce foreign exchange funds provided hereunder for more effective and selective programs, the qualitative achievements equal those of past years. The MOST has the demonstrated competence to carry out future program activities.

7. OTHER DONORS	1	2	3	4	5	6	7	1	2	3	4	5

(See Next Page for Comments on Other Donors)

AID 1020-28(10 70)	PROJECT NO.	PAR FOR PERIOD	COUNTRY	PAR SERIAL NO.
PAGE 3 PAR	489-11-230-683	7/75 - 9/76	Korea	1977 - 4

II. 7. Continued: Comment on key factors determining rating of Other Donors

N. A.

III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					
		CUMULATIVE PRIOR FY	CURRENT FY 76 TO DATE	CURRENT FY 76 TO END	FY 77	FY ____	END OF PROJECT
Periodically reviewed plan by MOST and other Korean institutions concerning the quality and quantity of linkages	PLANNED	6	4	-	-	-	10
	ACTUAL PERFORMANCE	5	1				
	REPLANNED			-	2	-	8
Consultants brought to Korea	PLANNED	43	15	-	-	-	58
	ACTUAL PERFORMANCE	30	12				
	REPLANNED			-	11	-	53
Participants sent for training in the USA.	PLANNED	21	12	-	-	-	53
	ACTUAL PERFORMANCE	43	10				
	REPLANNED			-	19	-	72
Korea scienticts repatriated	PLANNED	12	3	-			15
	ACTUAL PERFORMANCE	9	1				
	REPLANNED			-	-,	-	10

B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS	COMMENT:
1. Build-up of MOST operated systems of management, finance, and information supportive of established linkages.	Though no new linkages have been established in FY 76, MOST and indigenous S&T organizations have maintained and strengthened the already established relationships with various U. S. S&T oinstitutions. MOST and NAS are committed to have joint committee meetings for science cooperation on a continuing basis. Korean participant (cont'd)
2. Output of applied and adaptive research and its use by Korean industrial, commercial and technological establishments.	Reports of consultants services and research resulting from training under the project are prepared for wide distribution to relevant ROKG private and public S&T organizations, so they can remain up to date thethe development of their particular fields of specialization.
3. Utilization of linkages to impsove output and utilization of technology and research.	An agreement has been renewed for an additional one year thru 6/30/76 between KORSTIC and NTIS to further the mutual exchange of scientific information, promotion, development and sales of NTIS products and services needed by domestic R&D institutions.

AID 1020-25 (10-70) PAGE 4 PAR	PROJECT NO. 489-11-230-683	PAR FOR PERIOD: 7/75 - 6/76	COUNTRY Korea	PAR SERIAL NO. 1977 - 4

IV. PROJECT PURPOSE

A. 1. Statement of purpose as currently envisaged.

2. Same as in PROP? ☒ YES ☐ NO

The purpose of the project is to promote linkages between MOST and other Korean scientific organizations, as the MOST may designate, and U.S. scientific organizations.

B. 1. Conditions which will exist when above purpose is achieved.	2. Evidence to date of progress toward these conditions.
1. MOST linkages, in a number of scientific and technological fields, with U.S. institutions and organizations. 2. MOST-operated information and linkage-promoting systems which stimulate and support American scientific and technological research interests in Korean problems. 3. Domestic scientific research and technological study capabilities steadily strengthened through linkages.	1. See Comments Section III B 1. 2. Through existing linkages with U.S. S&T institutions, MOST has been able to have access to the technical expertise needed by domestic R&D institutions in their respective technical areas. For example, a consultant from BMI was brought to advise KIST on a method and system of plant security and safeguarding of contract research; ANL expertise advised KAERI on nuclear reactor safety and other nuclear engineering problems; and a Korean scientist from Bell Telephone Lab. was repatriated to conduct a research work for KAERI on nuclear engineering. 3. The provision of U.S. consultants, training of Korean researchers, and repatriation of Korean scientists have helped domestic R&D institutions to reinforce their respective research capabilities. 3 consultants from U.S. universities and technology institutes have helped MOST in preparating a comprehensive report for the establishment of Korean National Science Foundation (KNSF), detailing the (cont'd)

V. PROGRAMMING GOAL

A. Statement of Programming Goal

This project is designed to facilitate the introduction of current innovative technologies so Korean scientific and industrial research efficiency will meet the needs of an expanding and changing economy.

B. Will the achievement of the project purpose make a significant contribution to the programming goal, given the magnitude of the national problem? Cite evidence.

Yes. Though program activities have been rather slow as compared with those in FY 75 due to the reasons as stated in "Comment" under Section II A, there is valid basis for reaffirming the positive contribution of this project. The Dae Duck Science Town, for which groups of U.S. consultants have made substantial contributions in its plan development, is now under construction. This Town will be potential center for Korean science and technology R&D in the areas of shipbuilding and oceanography, machinery, electronics and electricity, industrial standardization, petro-chemicals, food and health, and agriculture and fisheries. Further, the Town will, in addition to the Science Park in Seoul established to promote interdiciplinary cooperation in R&D, lay a solid foundation for the rapid development of science and technology by developing technical manpower, help develope industrial technology to further build up the heavy and chemical industries and promote exports, and create a national climate conductive to the advancement of science.

CONTINUATION SHEET

Section III. B. 1. Comment: (cont'd)

training and U.S. consultant services have been programmed and carried out effectively through the existing linkage system

Section IV B. 2. (cont'd)

principles, organizational structure, operation, and financing method. KNSF, when established, will broaden the professional interfacing between U.S and Korean scientific and education institutions, catalyze linkages, support exchange programs between the two countries, and coordinate joint research programs.